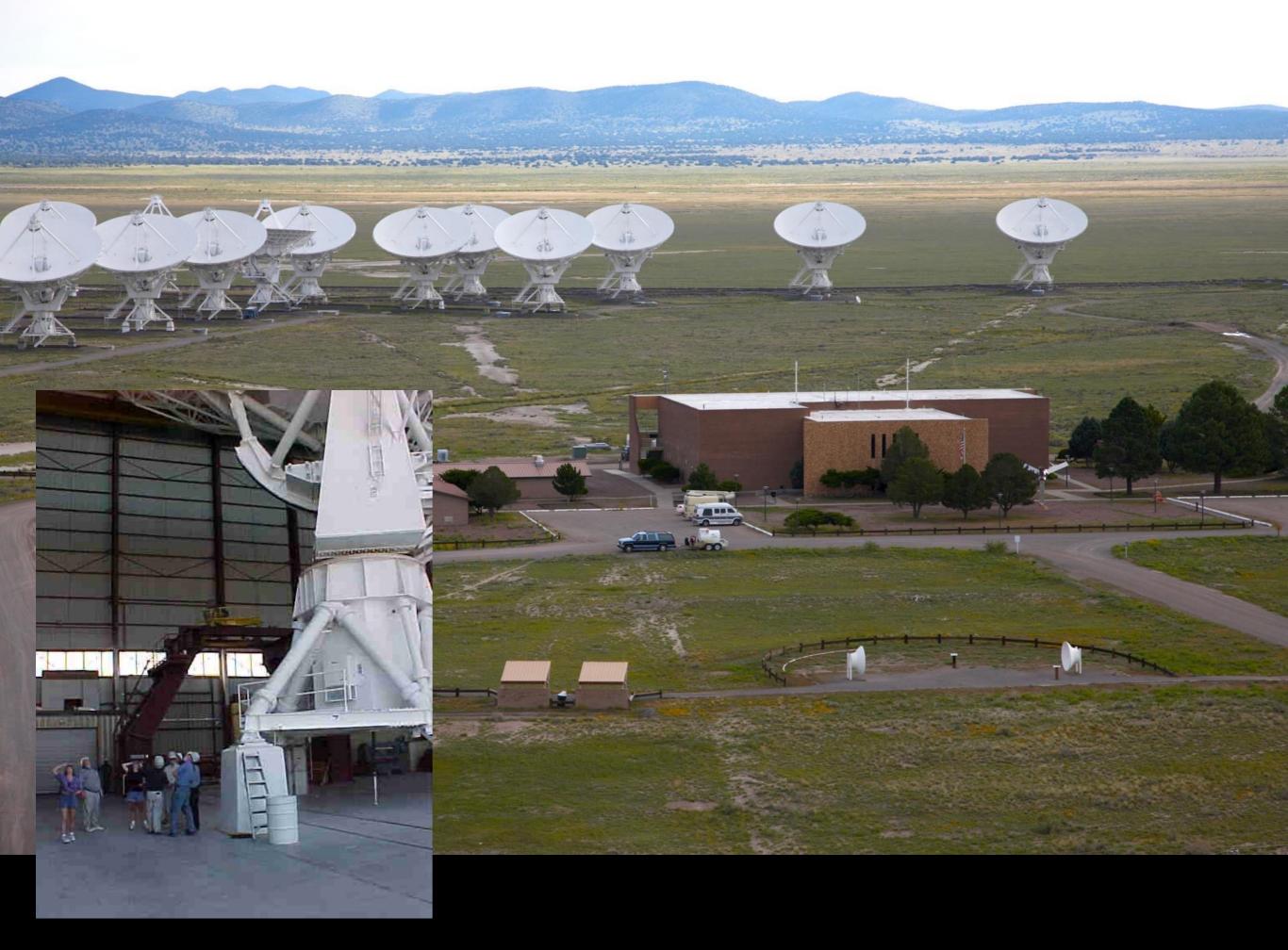
#### WINTER Astronomy Programs

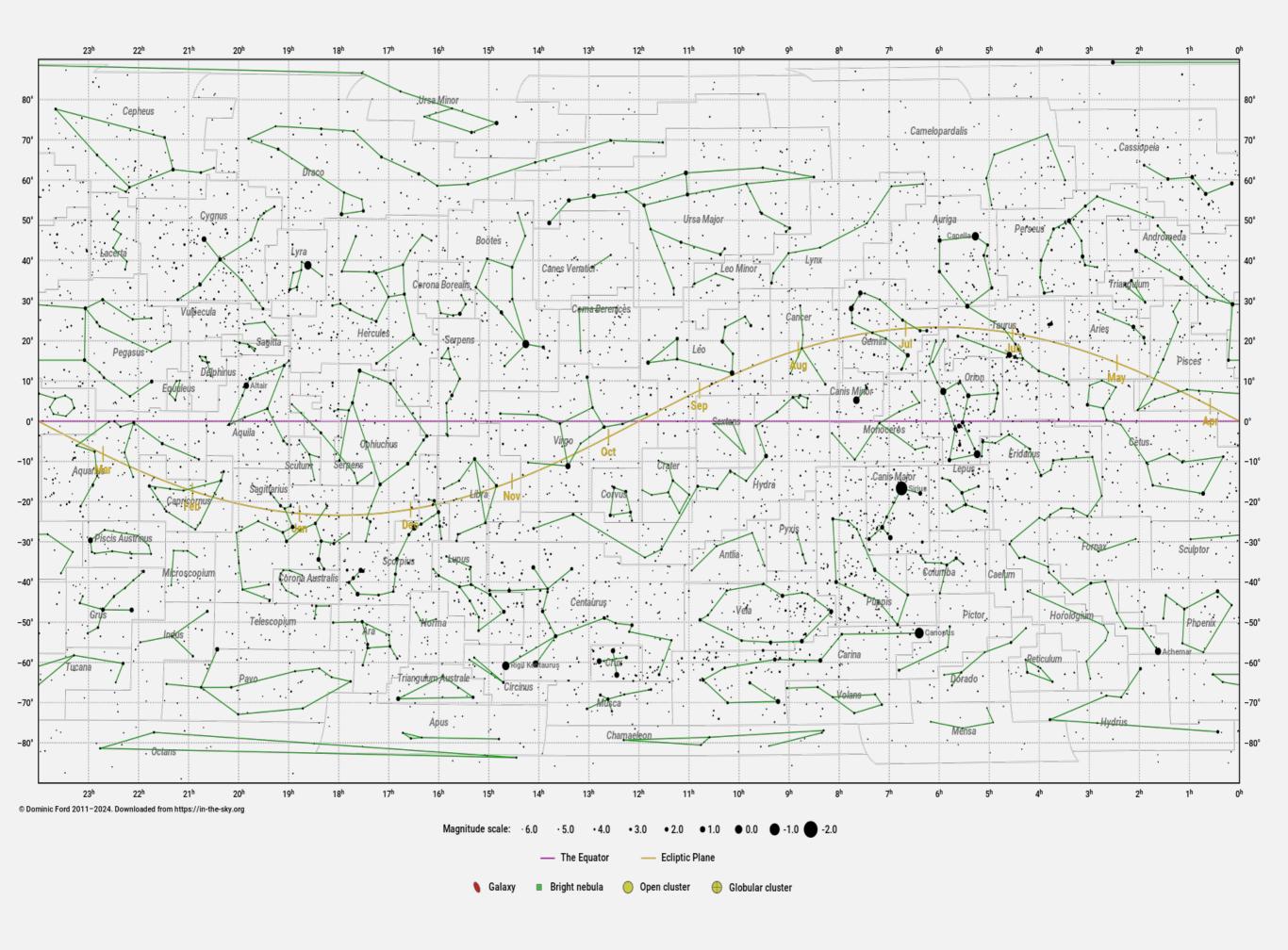
\*\*Feb Thursday 22 Feb: "Mission to Saturn" with John Conrad, NASA SSA, CCAS

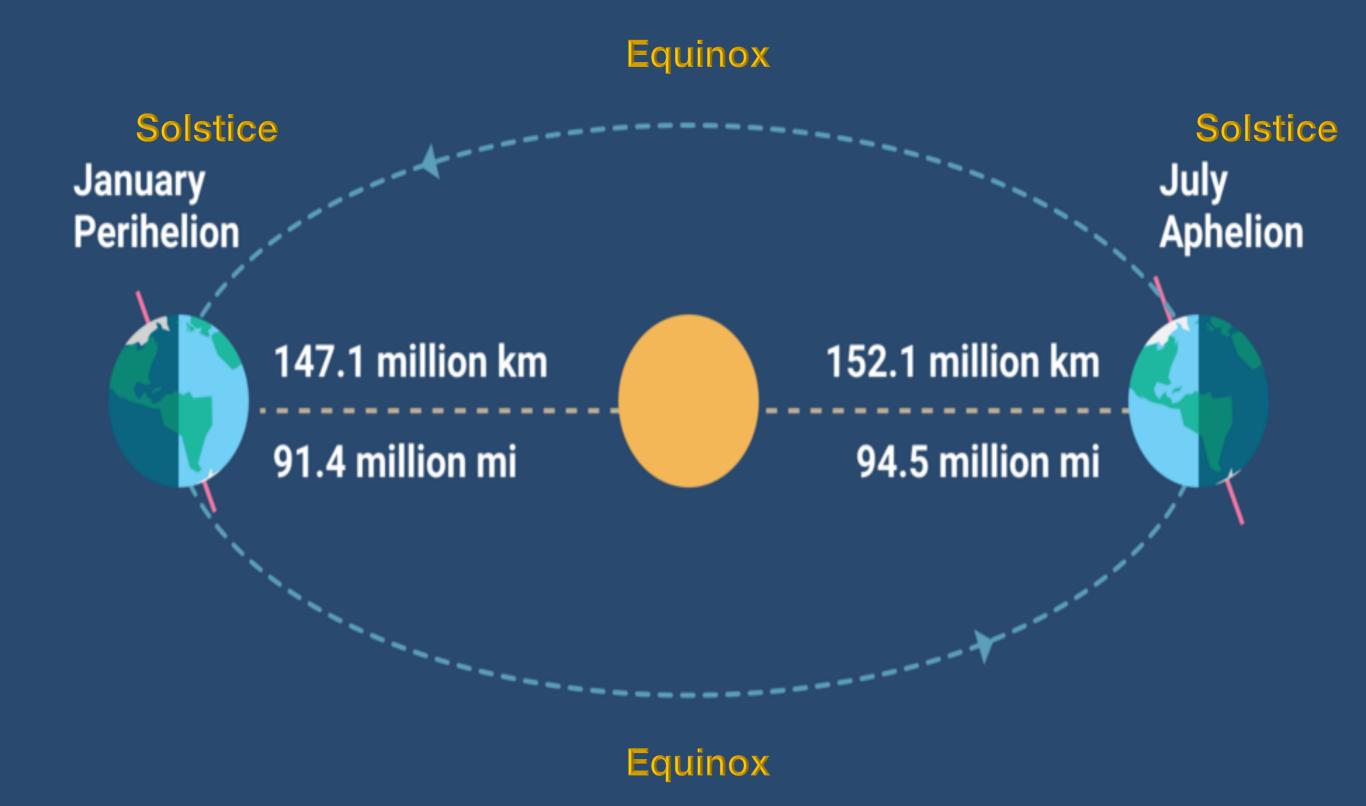
- Mar Tuesday 13: "The Crisis in Cosmology"
  With Eric Kearsley
- Mar Thursday 28: "Messier Tour & April Eclipse" With Roger Kennedy
- Mar Friday 29: Music Under the Stars "Spring" With Linda Kennedy, Harp and Roger Kennedy
- Apr Tuesday 12: Constellations of Spring
  With Roger Kennedy
  Apr Thursday 28: "NASA Contributions to Society"
  With Frank O'Brien Jr, NASA SSA

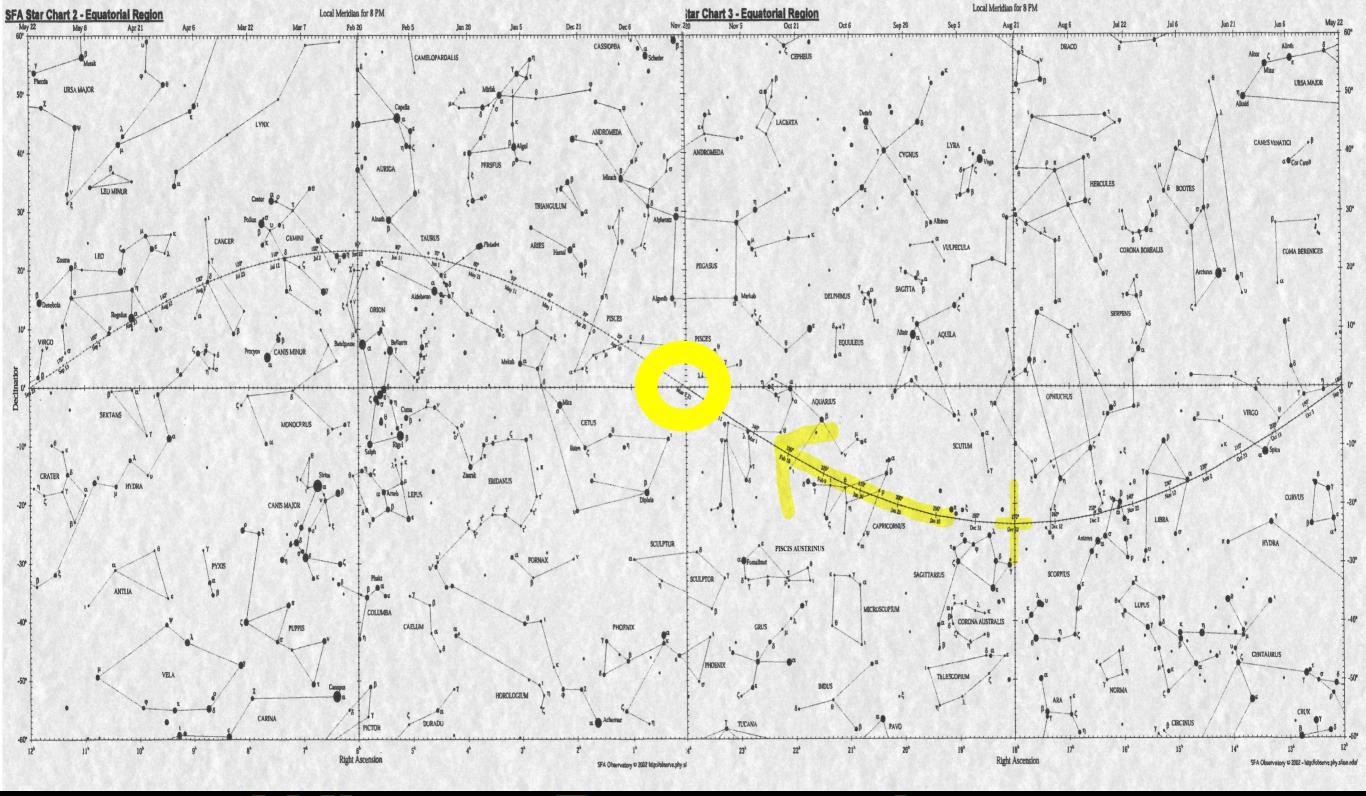


Date	Action
3 January 2024	NRAO/GBO Call for Proposals
31 January 2024	NRAO/GBO Proposal Deadline @ 17:00 EST
29 February 2024	Individual Science Reviews Completed
15 March 2024	Science Review Panel (SRP) Meetings Completed
16-17 April 2024	Telescope time allocation committee (TAC) meeting
10 May 2024	Disposition Letters Sent



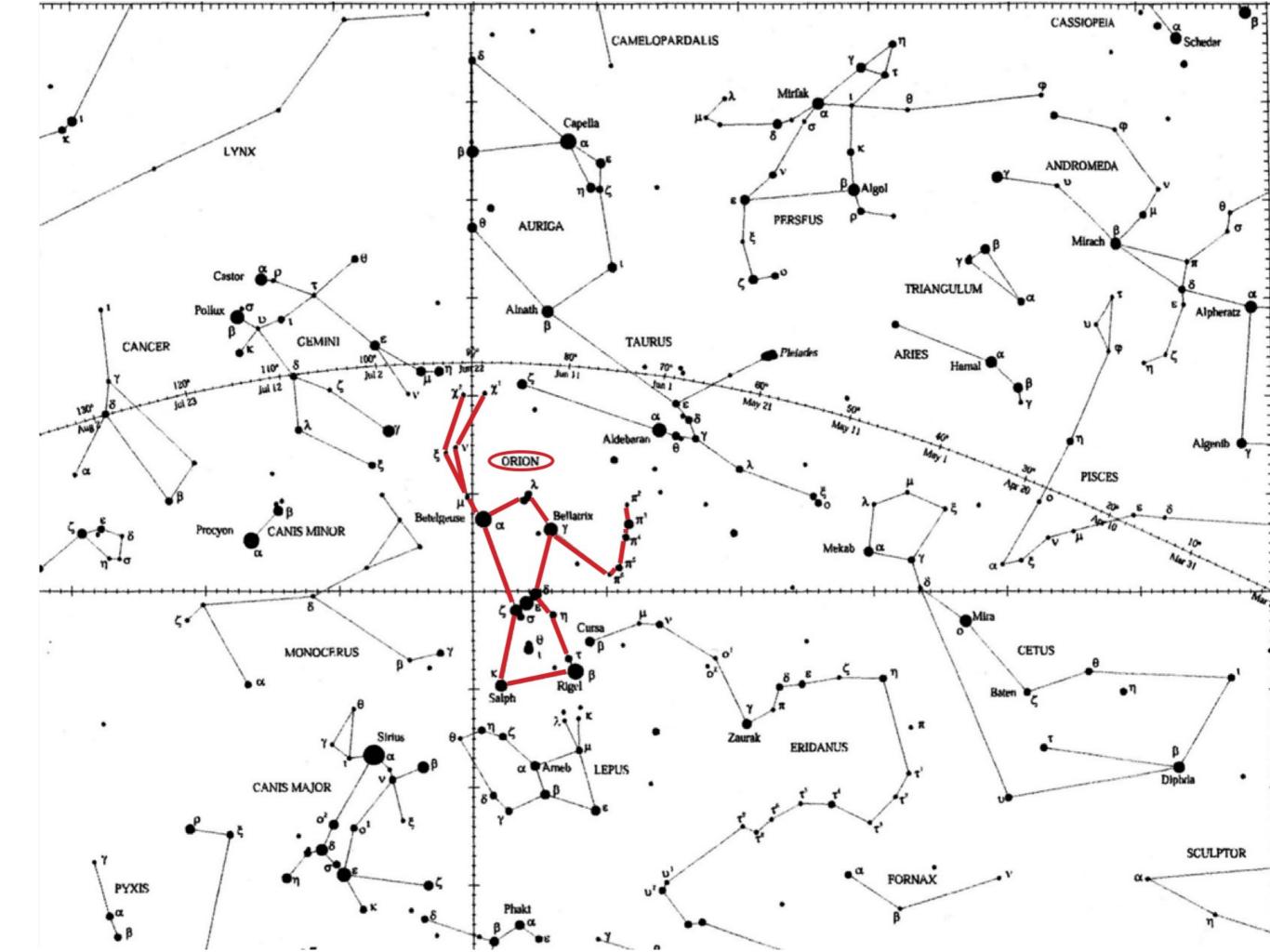


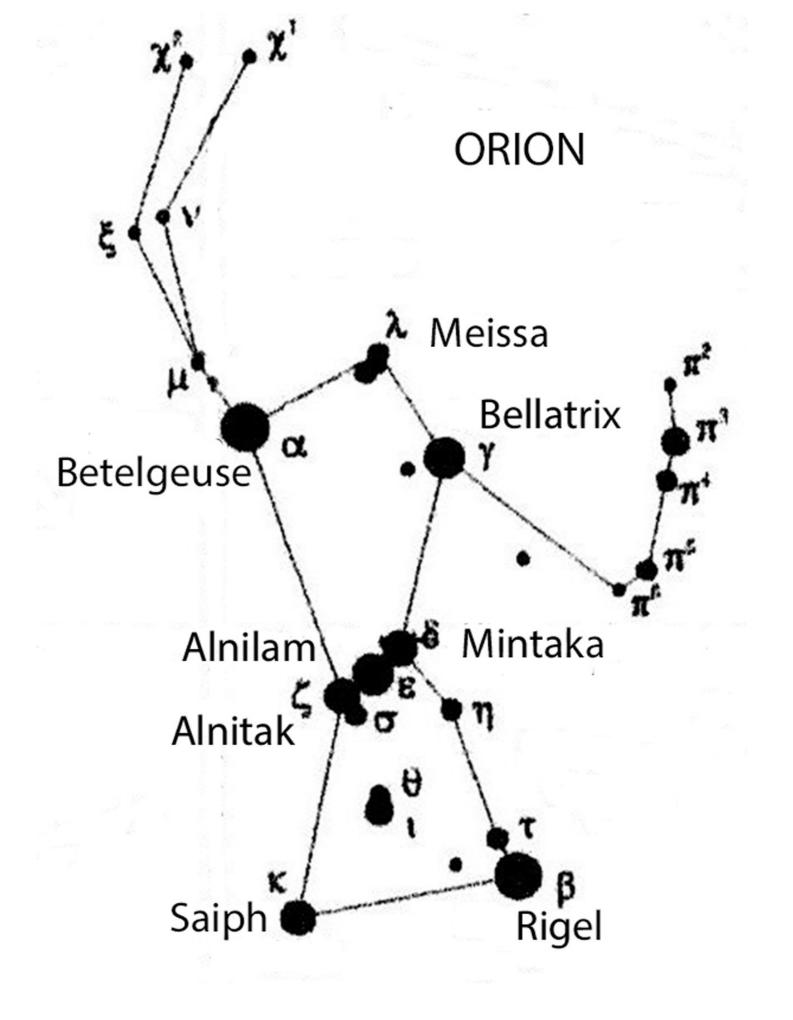




#### Winter Precession

#### Into Spring







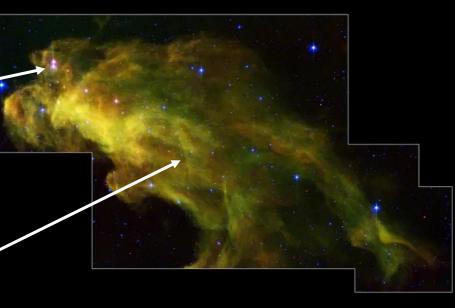


# IC 2118 Witch Head Reflection nebula



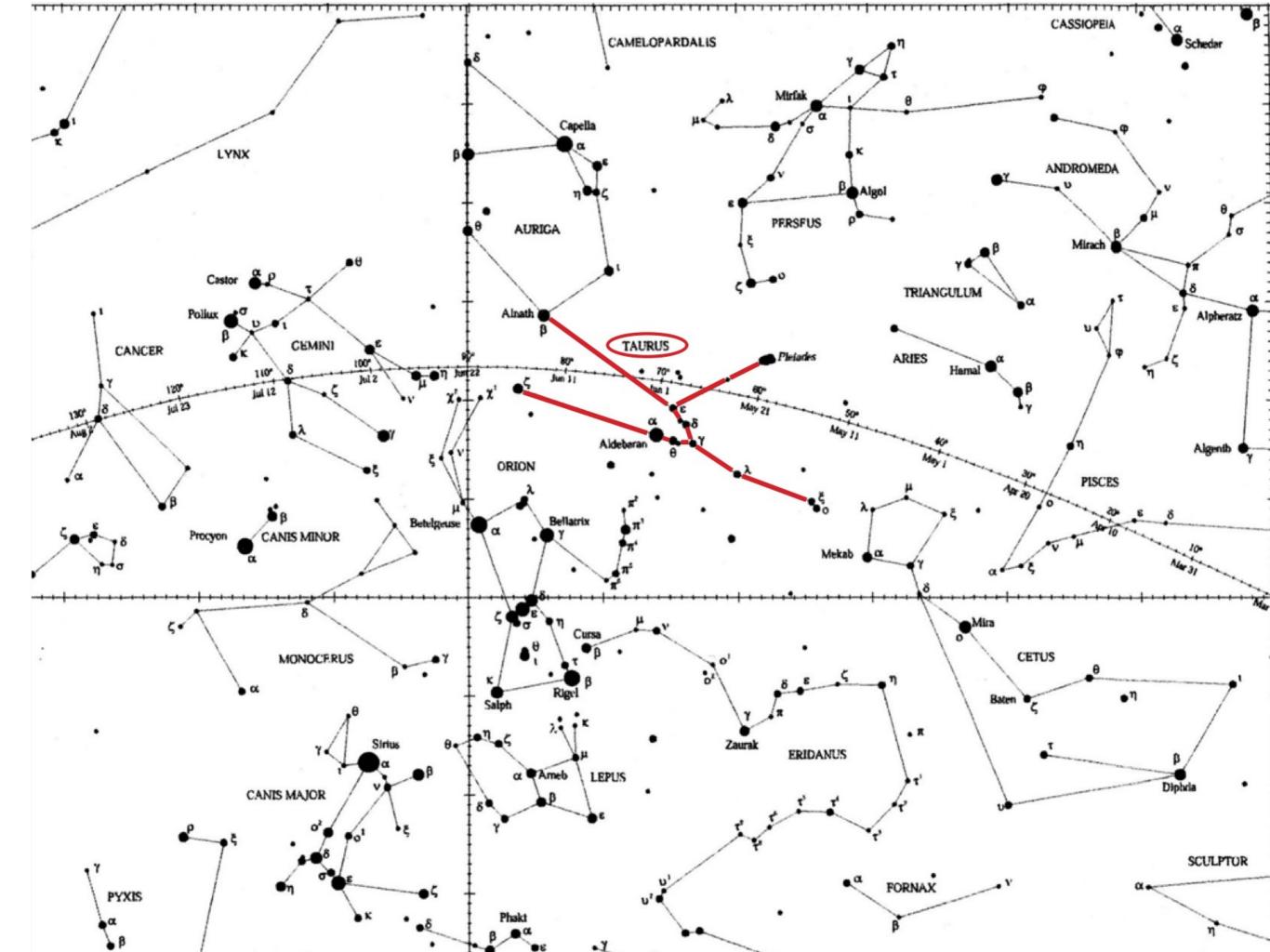
Block; Earth based telescope

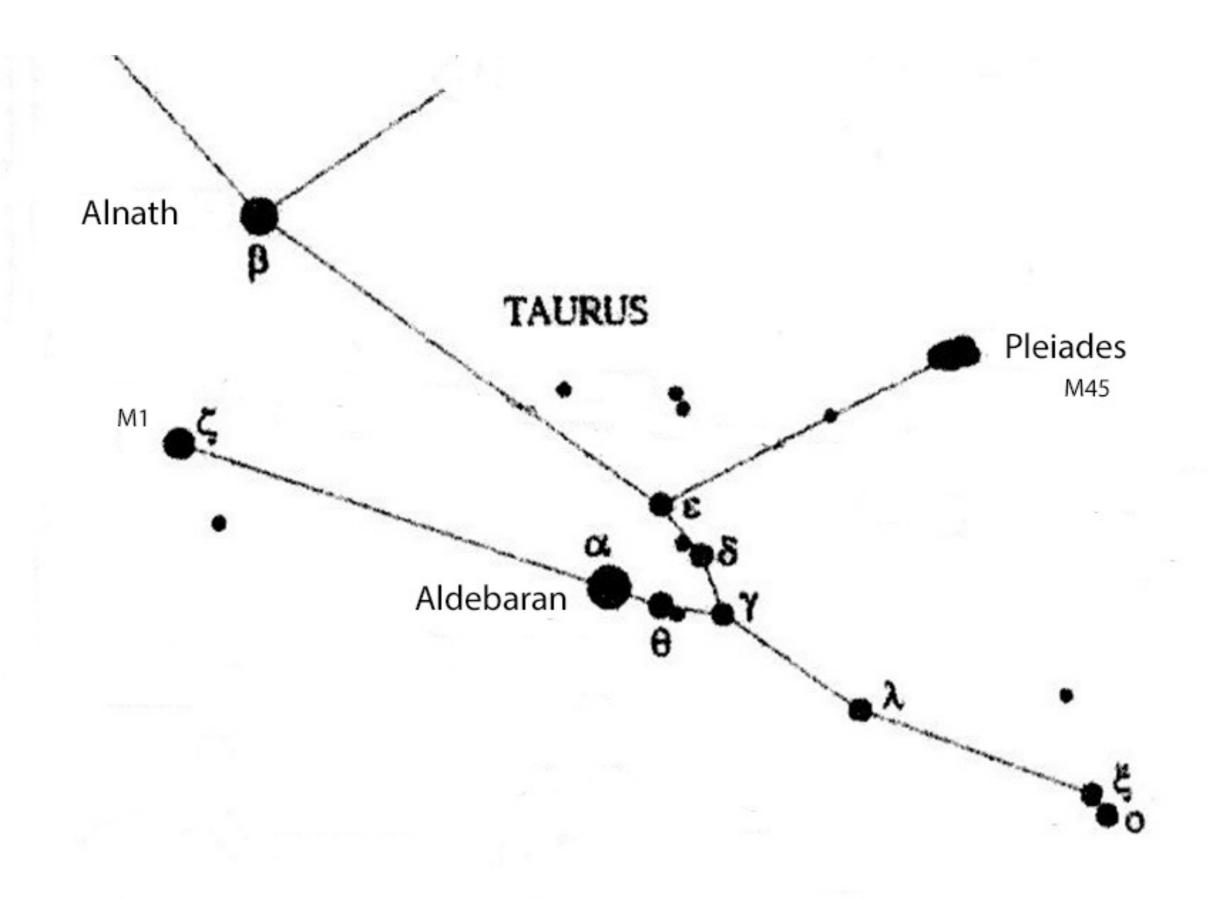
\*Very young stars (pink) \*Polycyclic aromatic hydrocarbons (greenish)



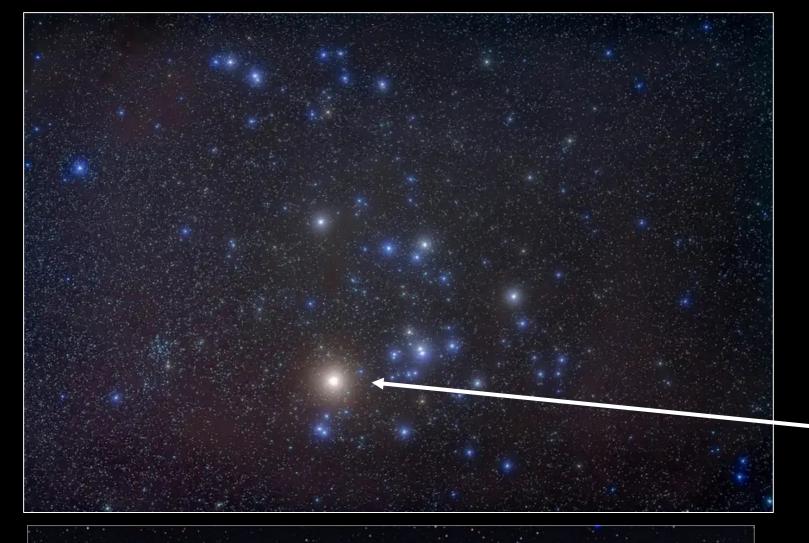
Witch Head Nebula
NASA / JPL-Caltech / L. Rebull (SSC/Caltech)

Spitzer Space Telescope • IRAC • MIPS





## Pleiades Open Star Cluster The Seven Sisters

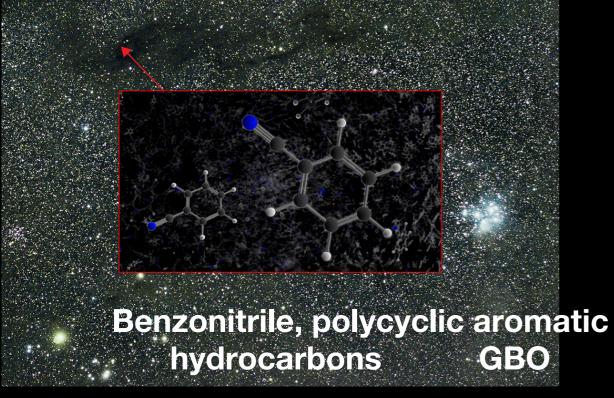


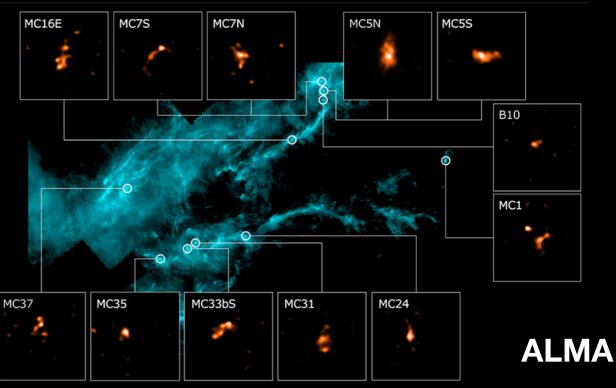
# The Hyades Open Star Cluster With -Aldebaran (The follower)



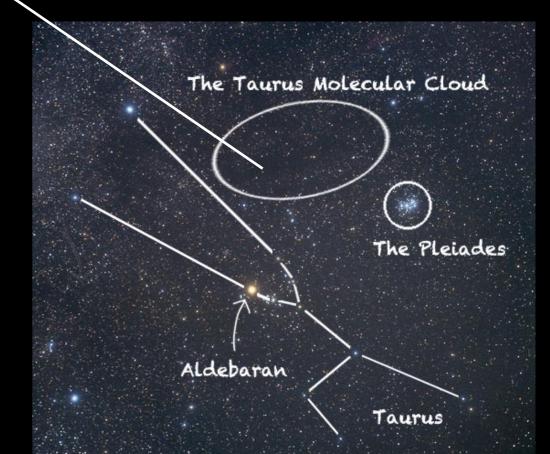
The other daughters of Atlas

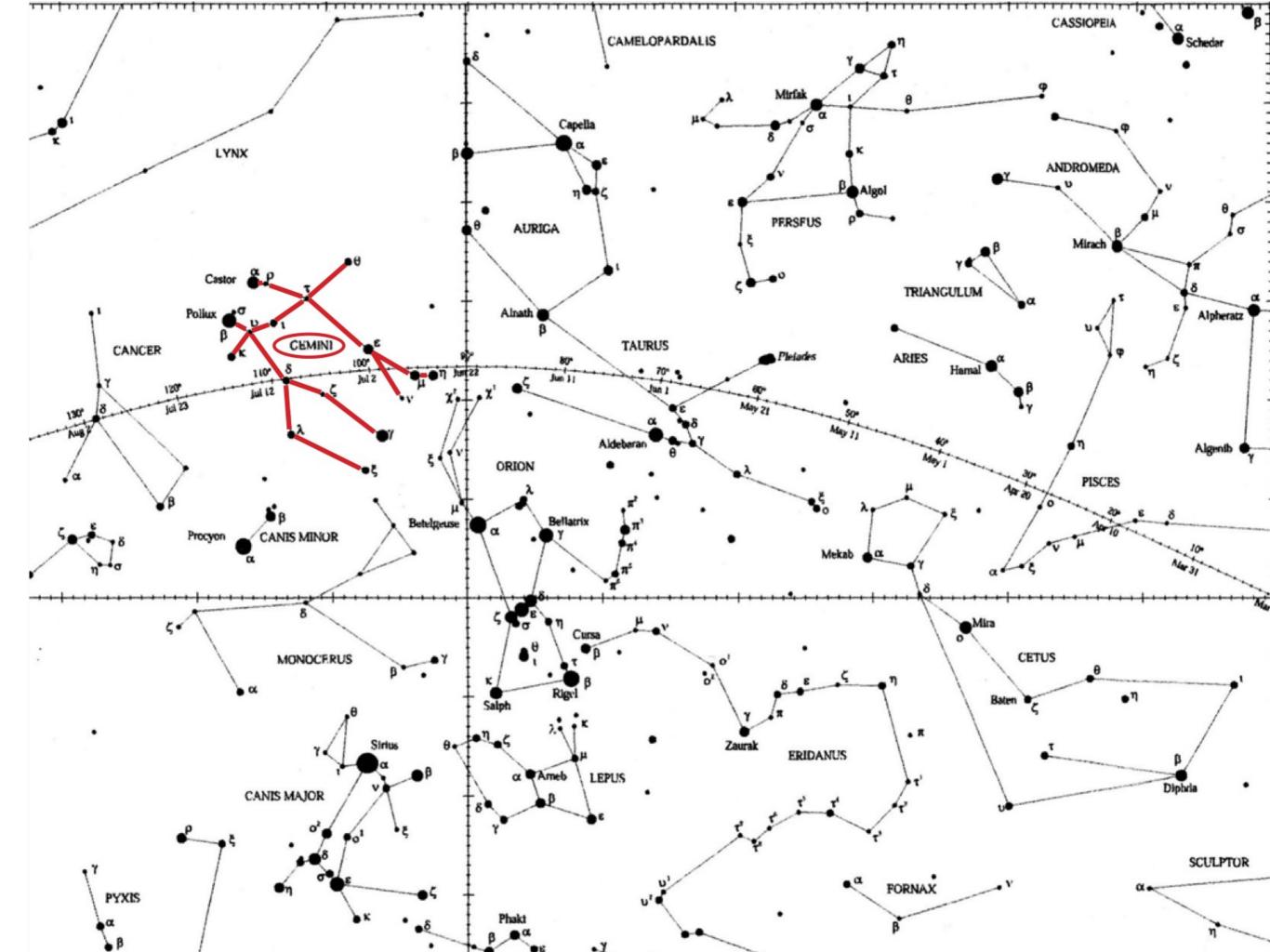




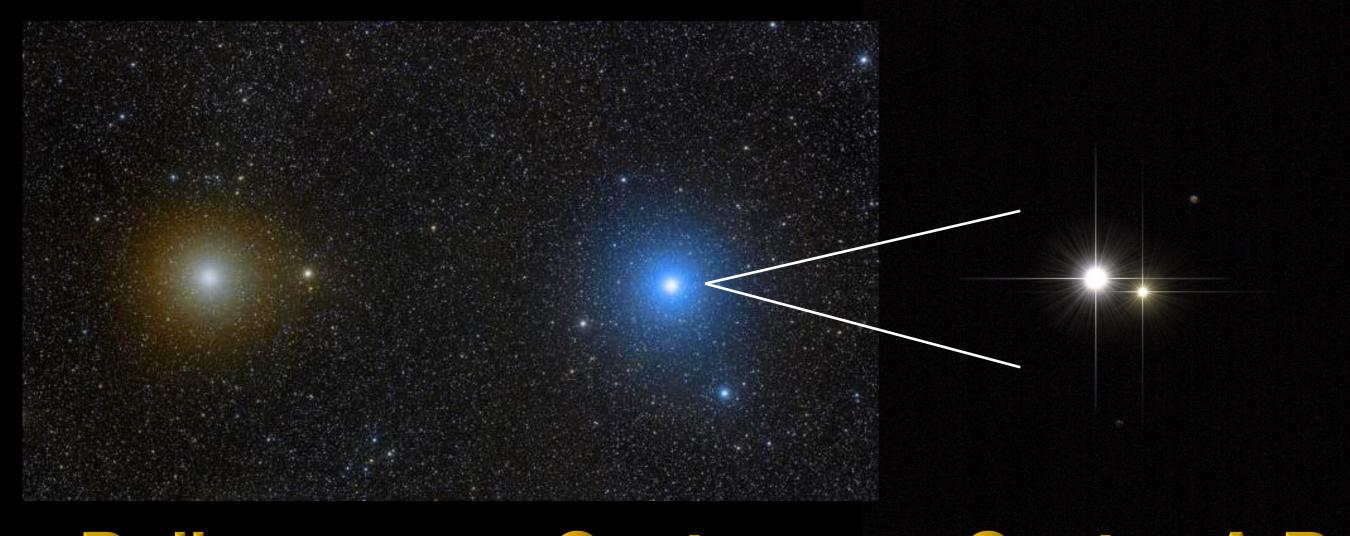


Taurus Molecular Cloud Nearest Star forming region to Earth







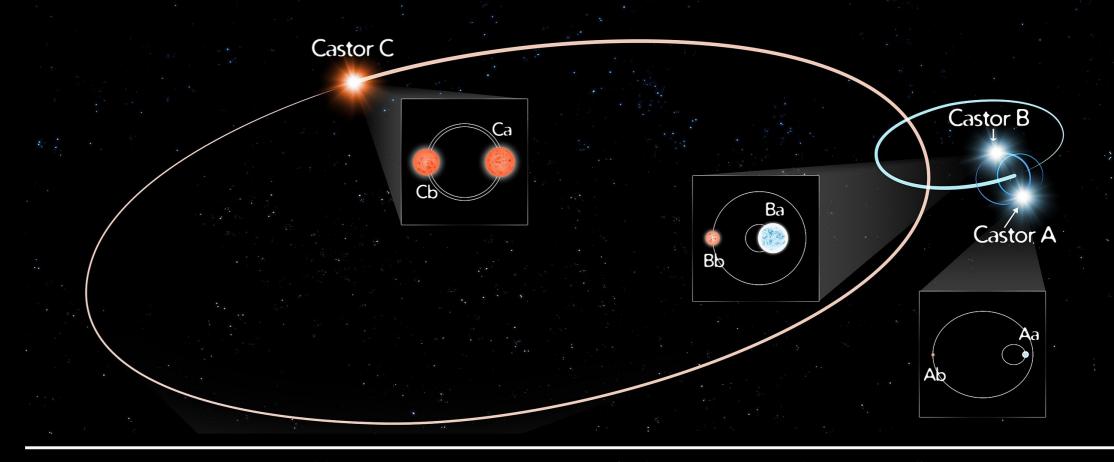


Pollux B Gem

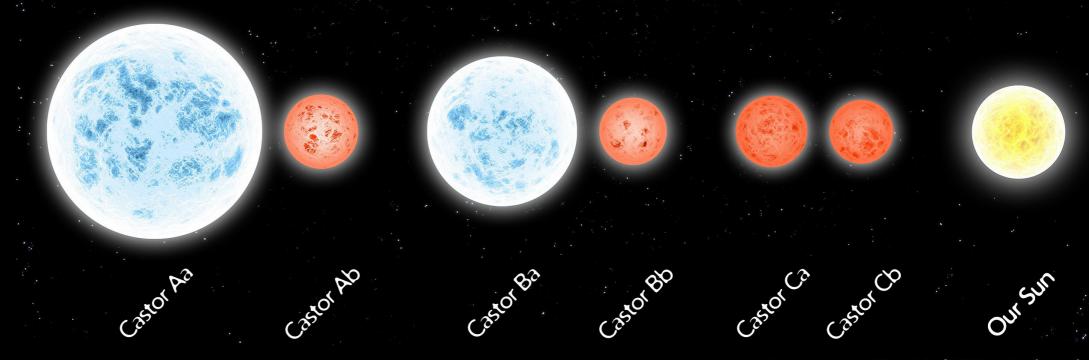
Castor  $\alpha$  Gem

Castor A,B

#### α Gem CASTOR - THE 6-STAR SYSTEM



#### SIZE COMPARISON

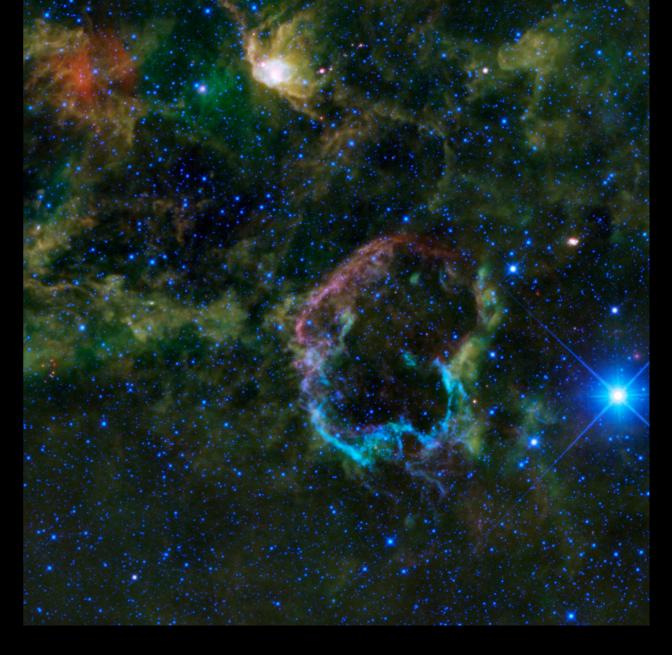


Courtesy NASA/JPL-Caltech.



Diana H-a

#### SNR IC 443 Type II SN



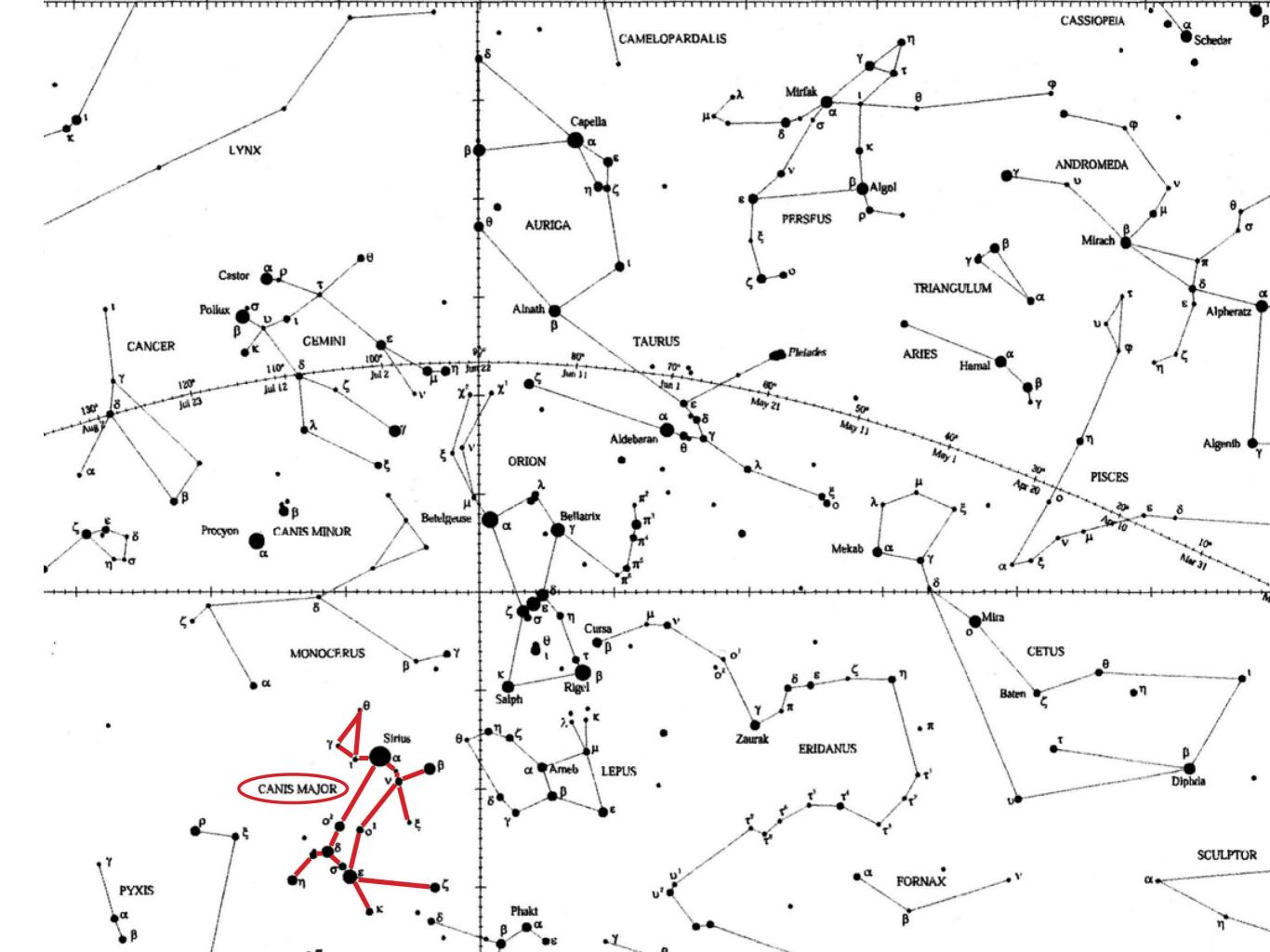
WISE Xray

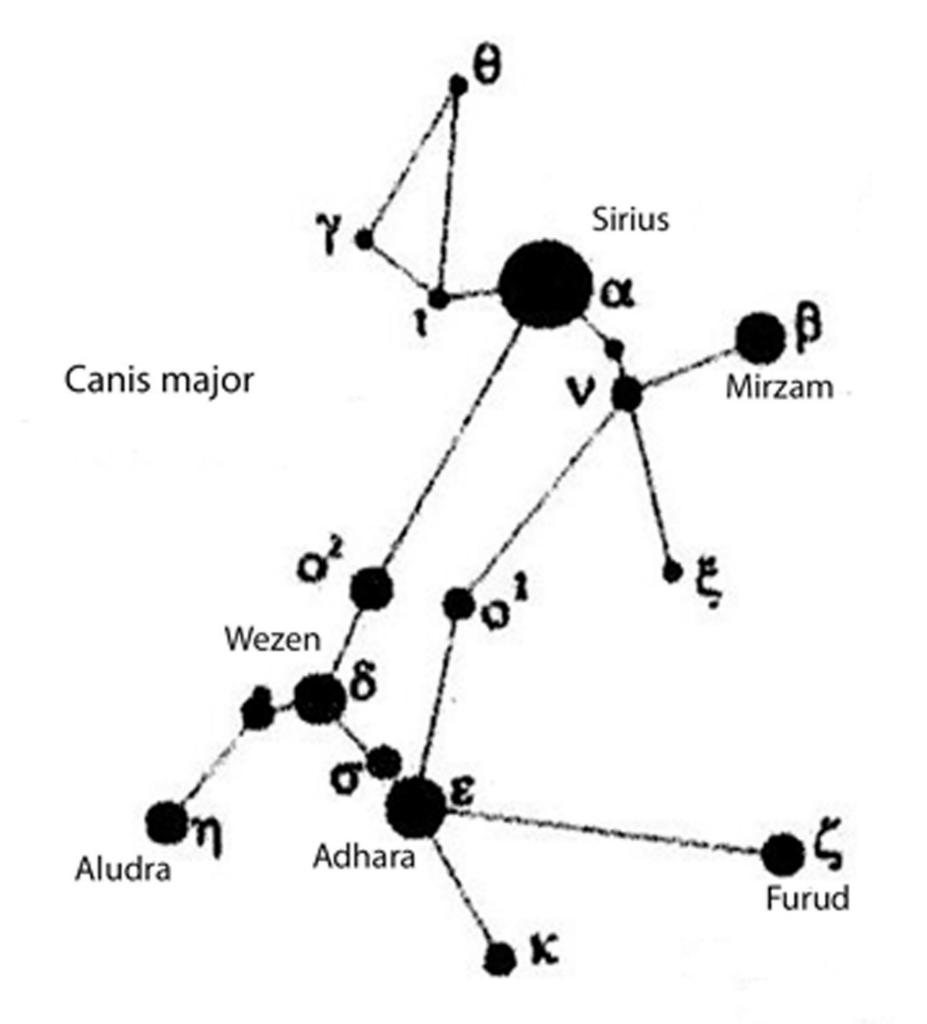
Jellyfish emission Nebula





**Hubble 3D view** 



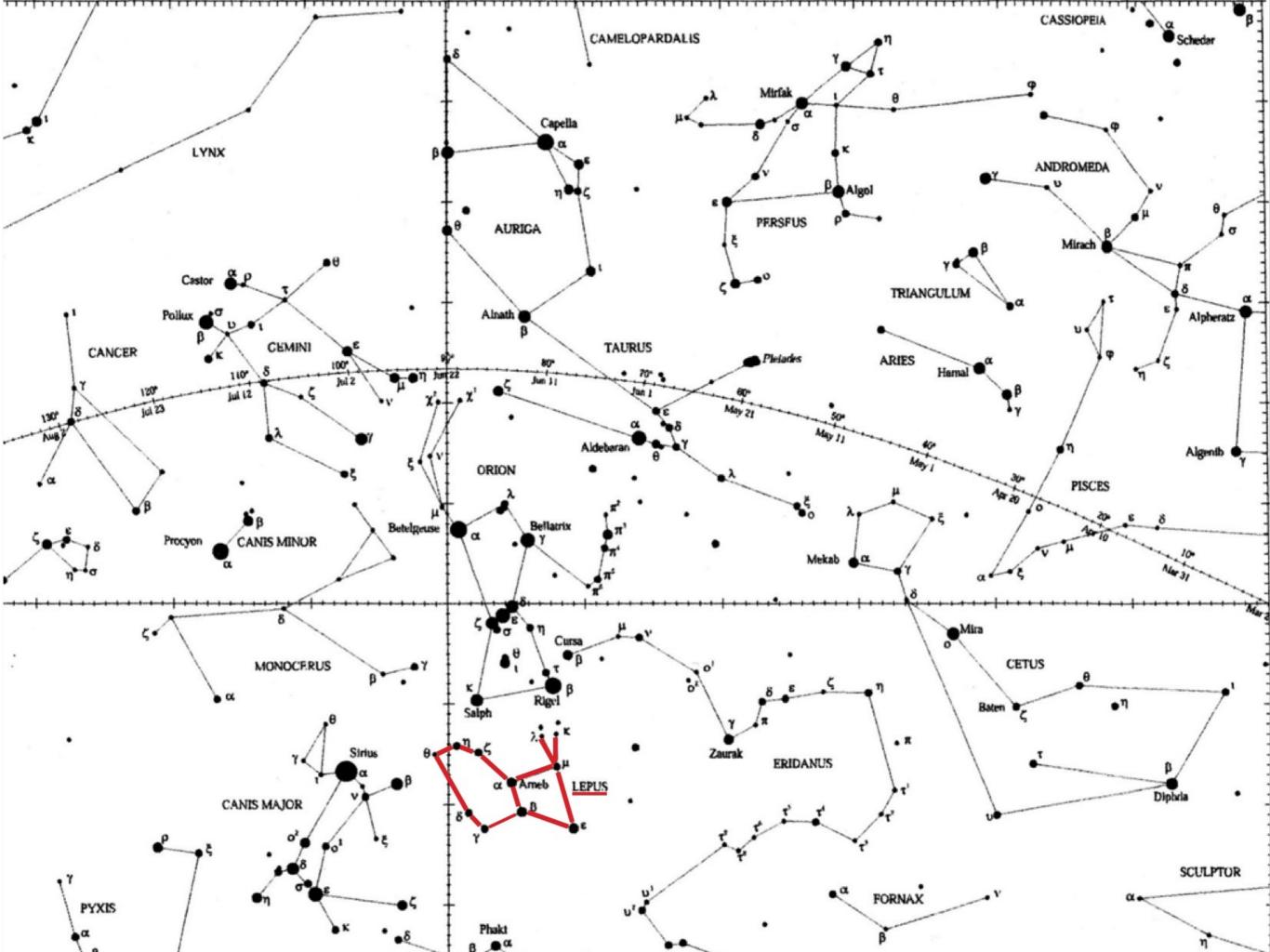


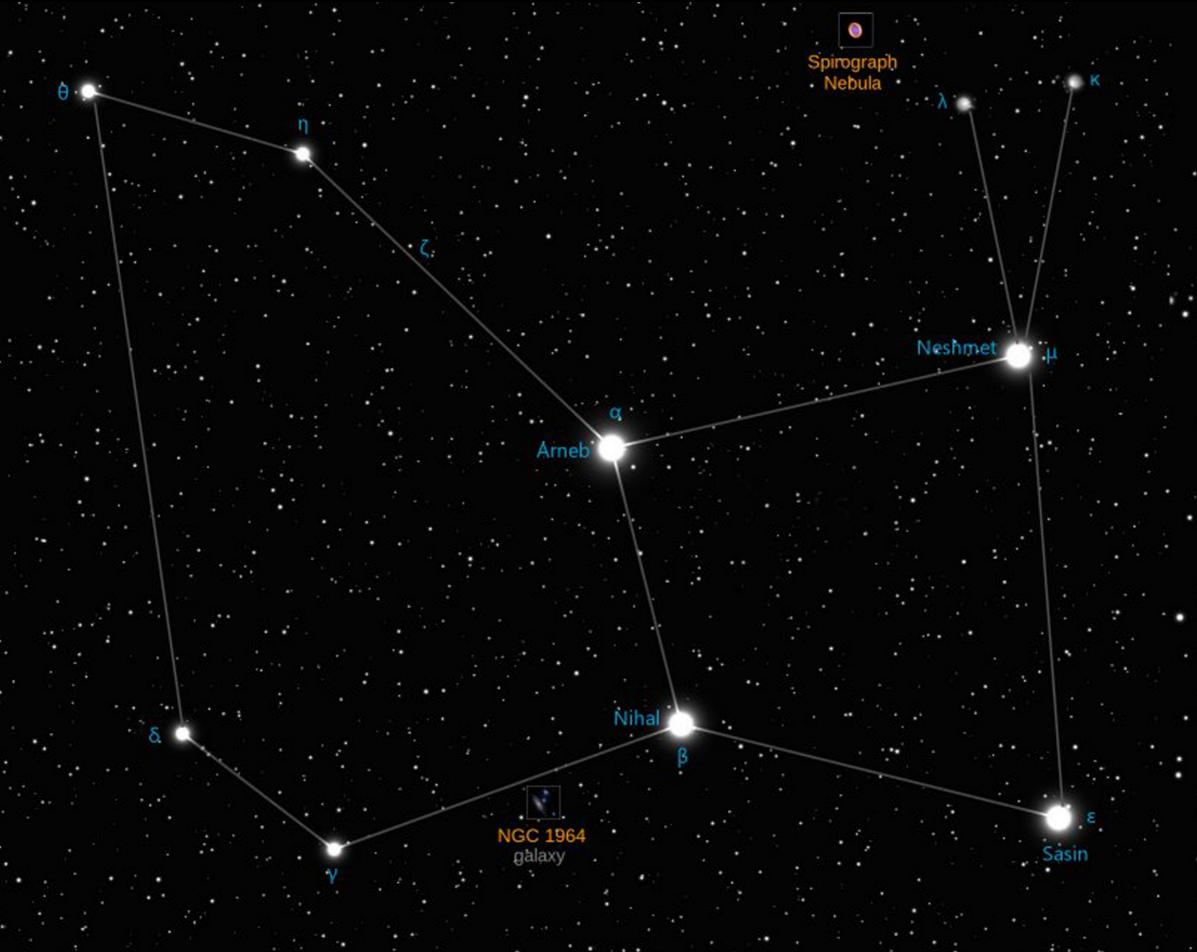


### Colliding Galaxies

NGC2207 IC2163

Rusterholz

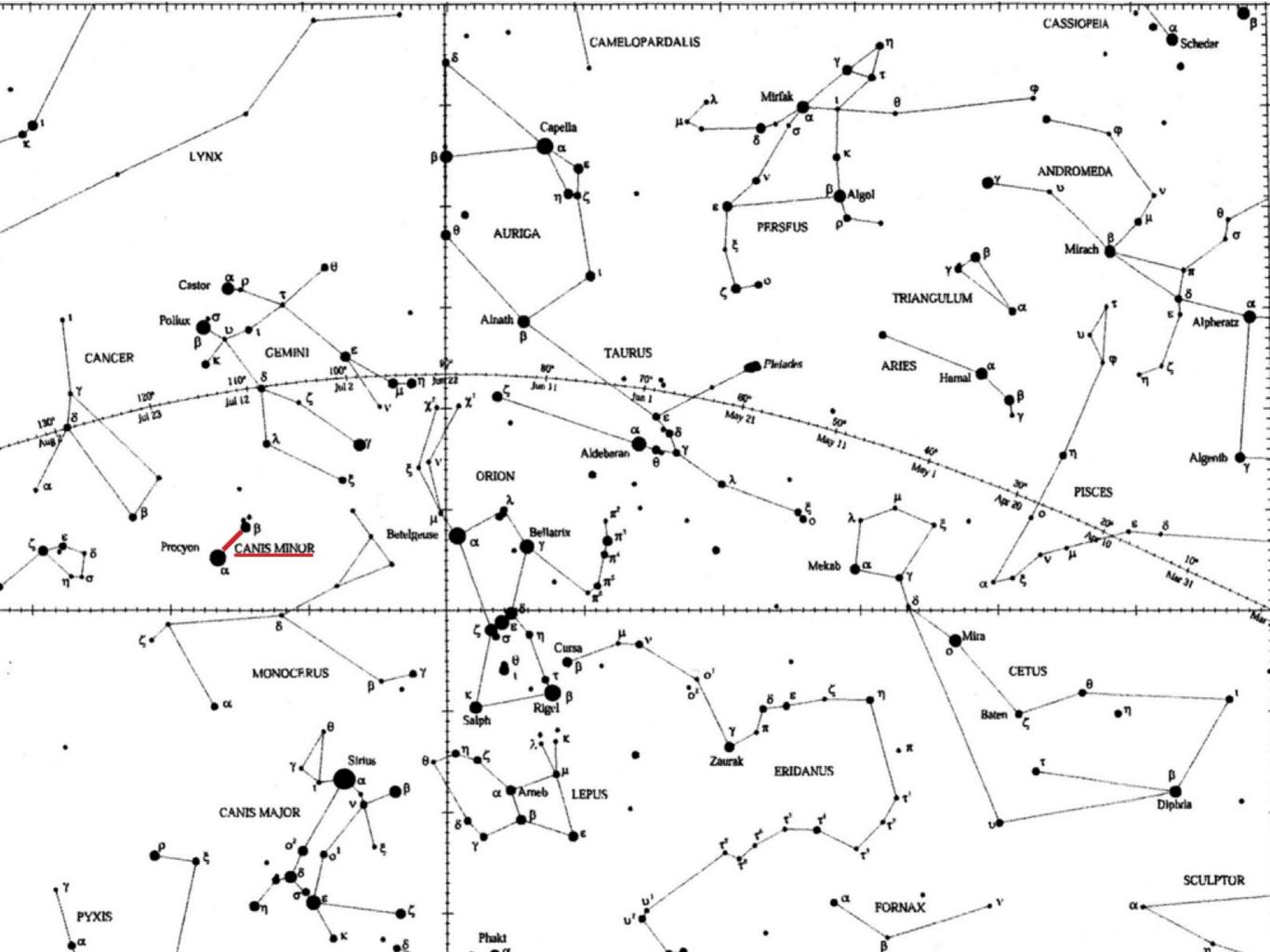


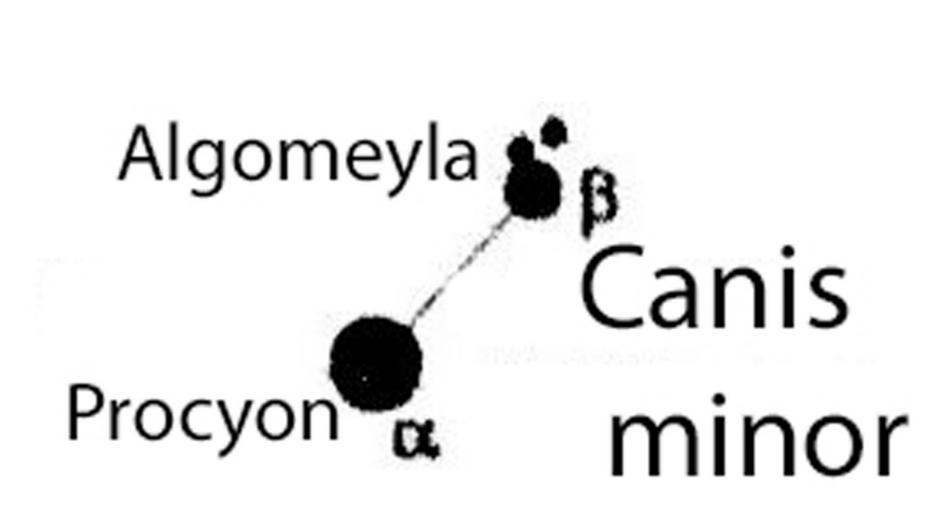


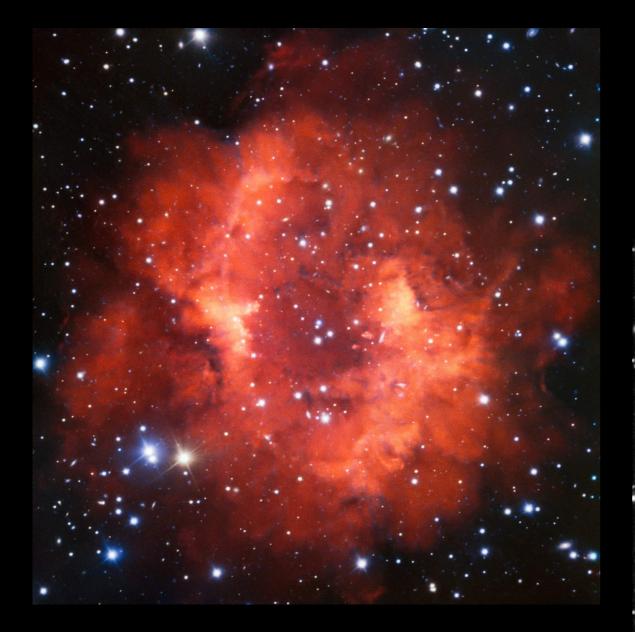




Spirograph
(Hourglass)
Planetary Nebula
Tellurium Detected





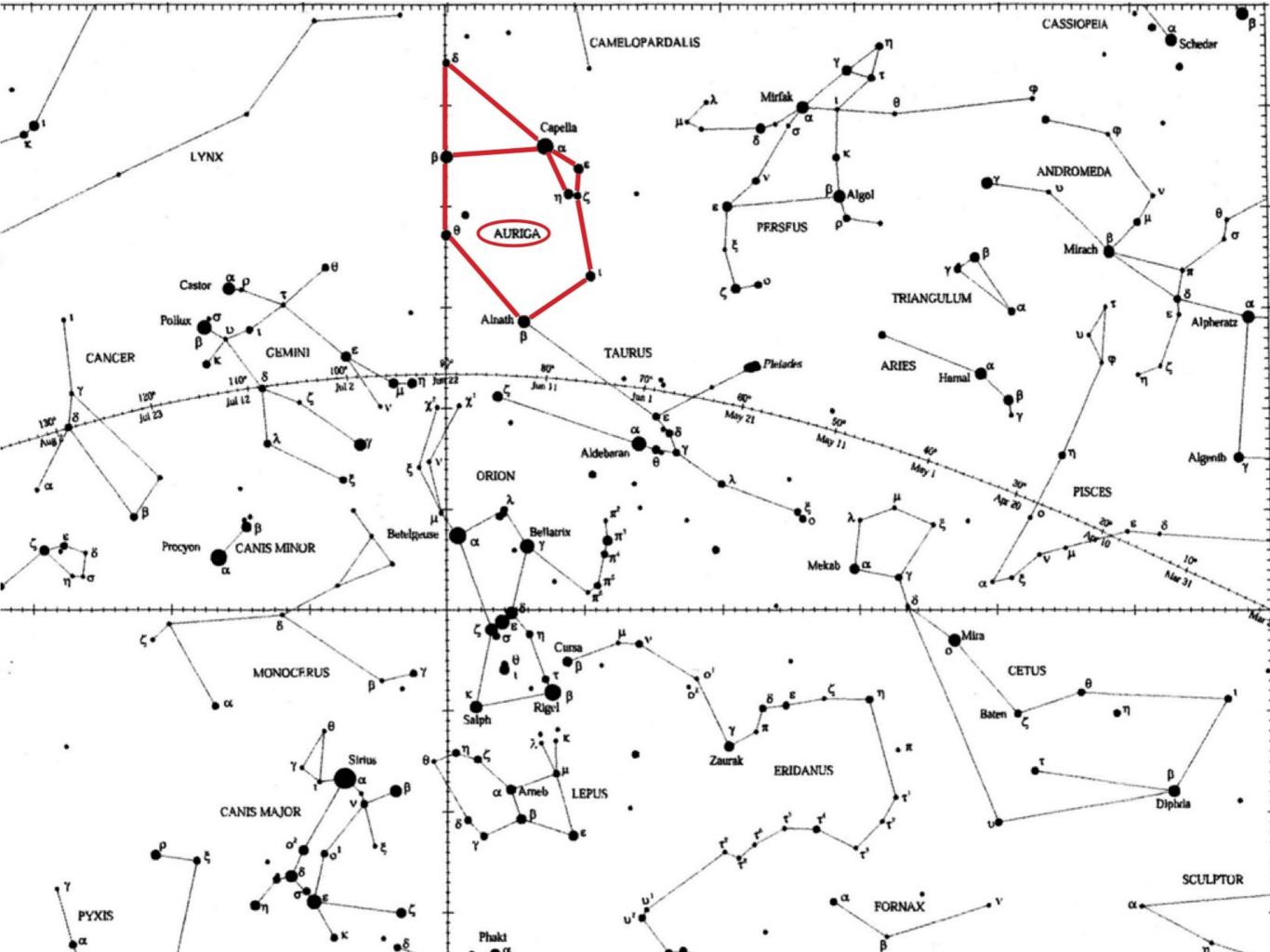


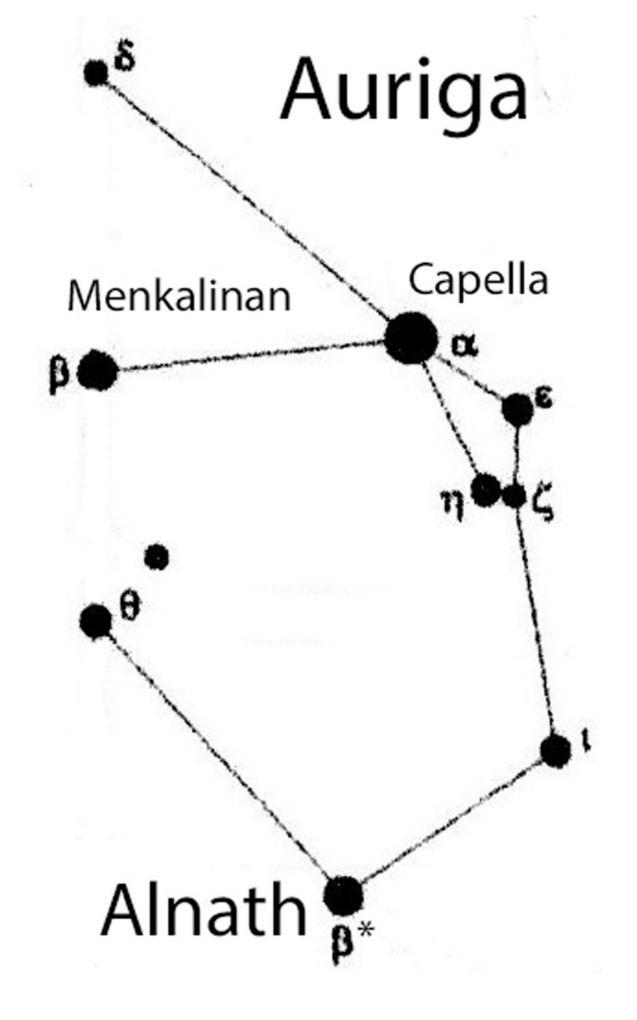
#### **VLT**

## Abell 24 Planetary Nebula



Texas Tech Univ: Earth based telescope





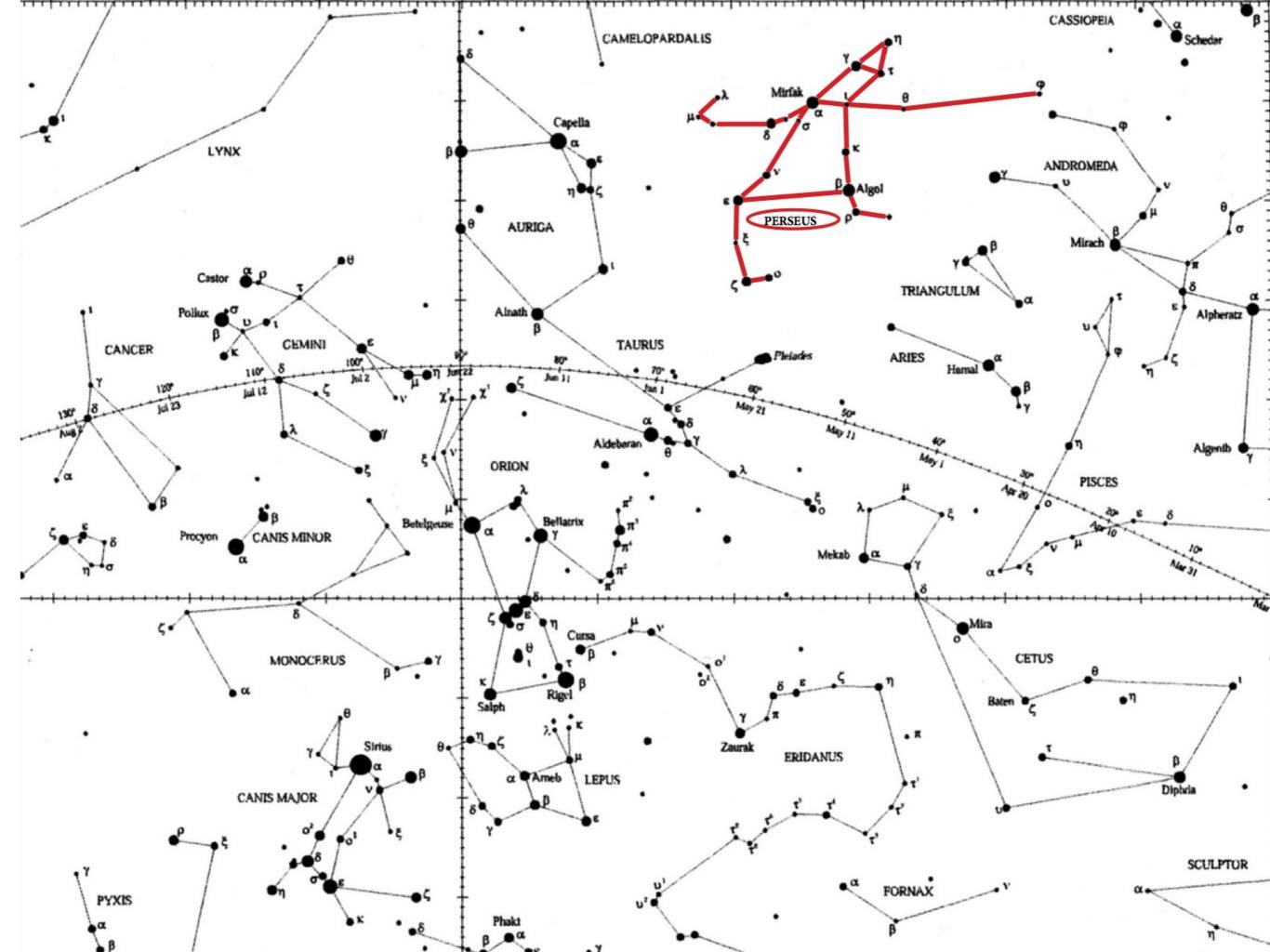
Emission Nebulae Sh2-232, 231, 235

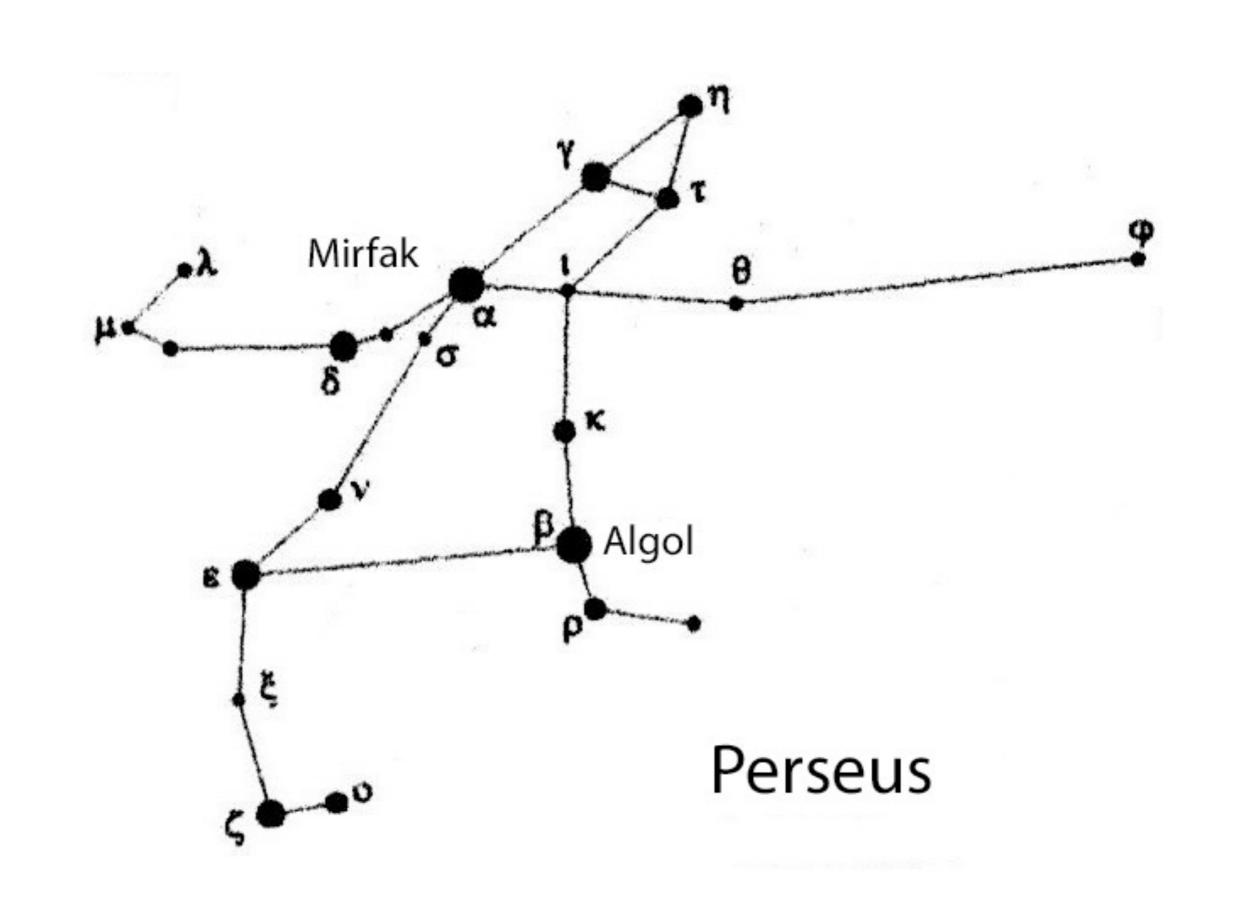
IC 405 Flaming Star Nebula



IC 410
The Spider
Nebula
NGC 1931
The Fly Nebula

IC 410 The Tadpoles Nebula





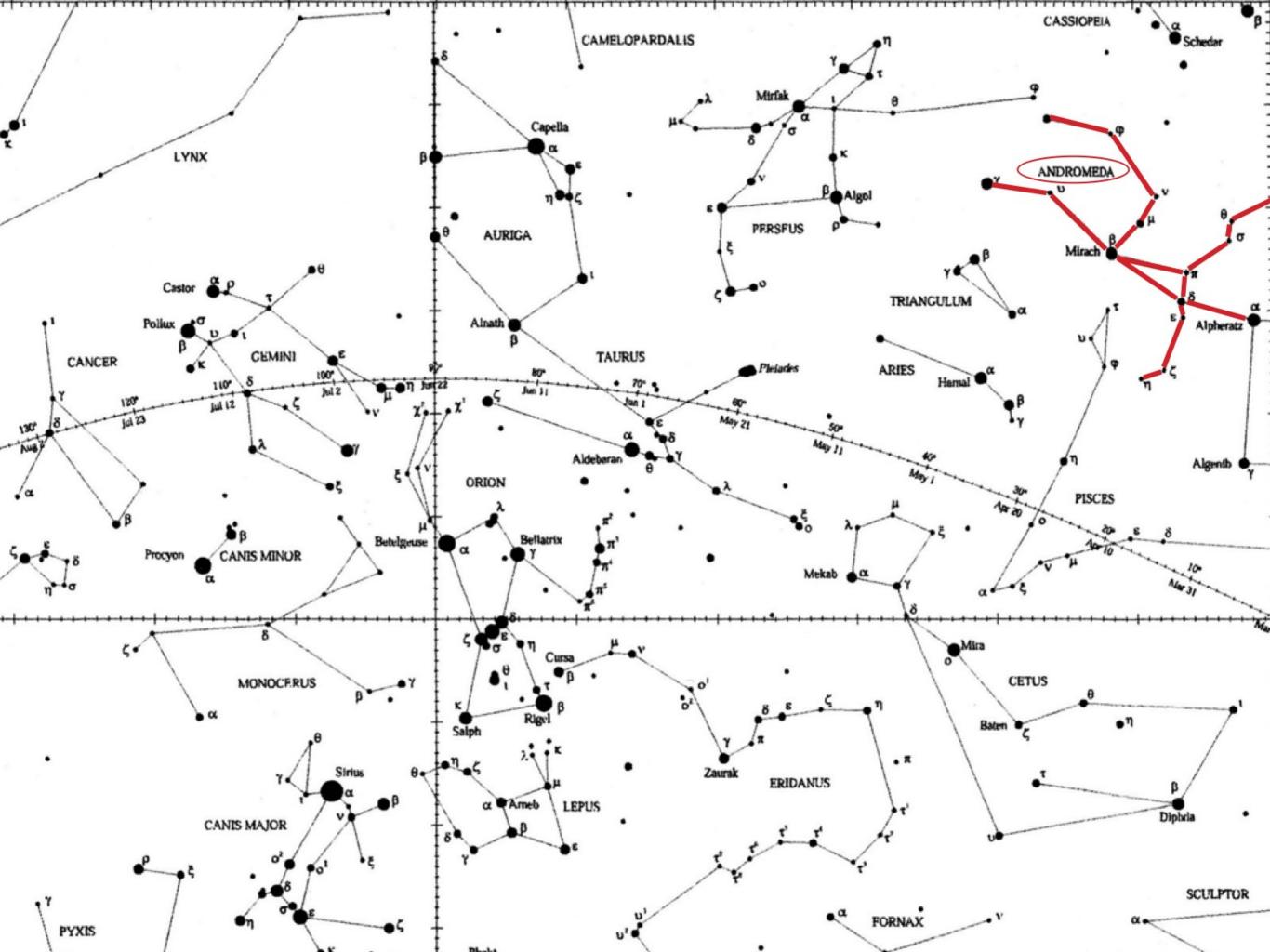


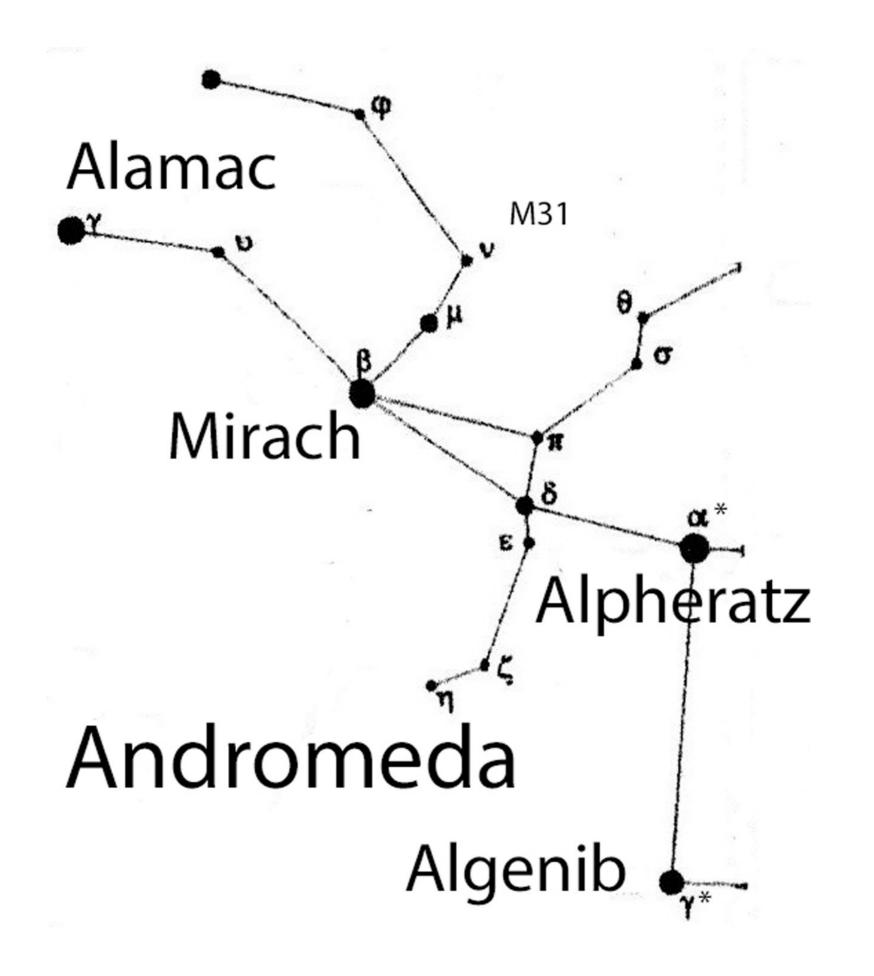
#### Perseus Molecular Cloud

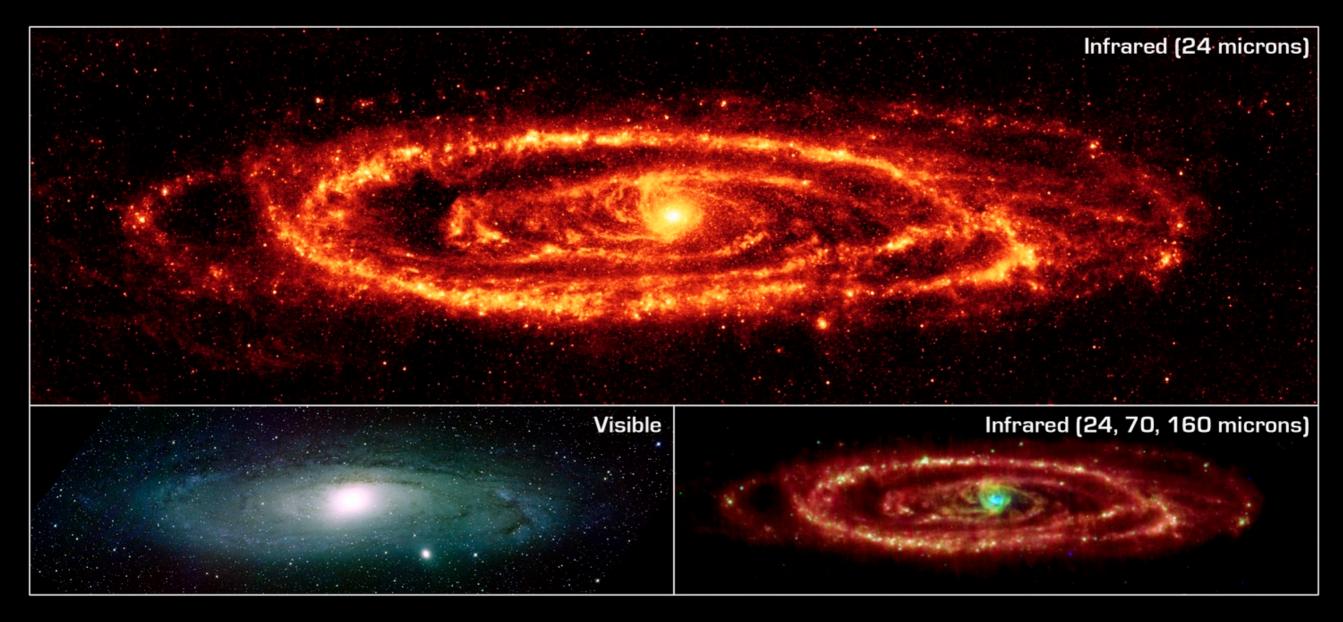


IC 348
Star
Cluster
Smallest
Brown
Dwarfs
3-4 Mj

**JWST** 





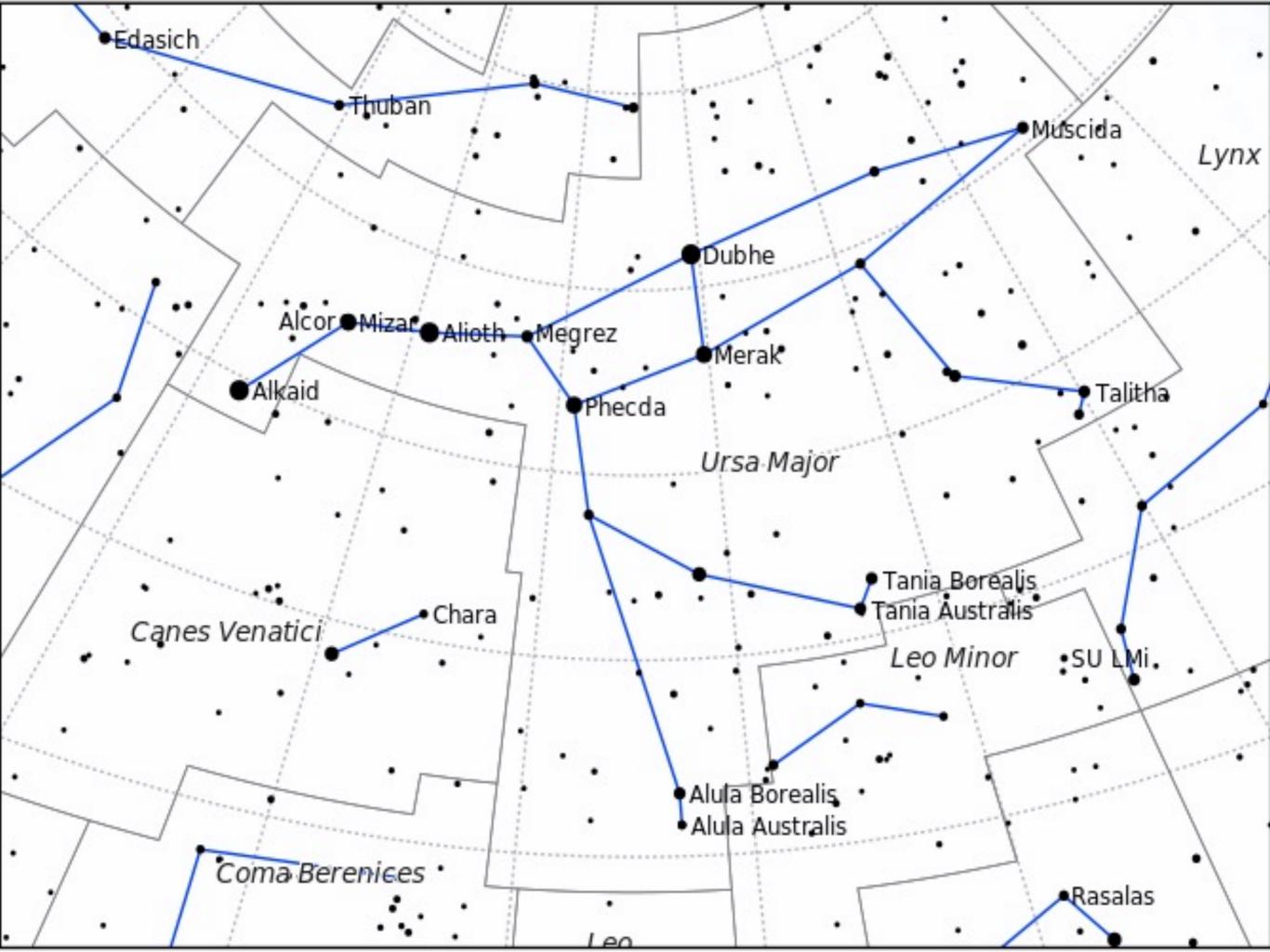


Dust in Andromeda Galaxy (M31)
NASA / JPL-Caltech / K. Gordon (University of Arizona)

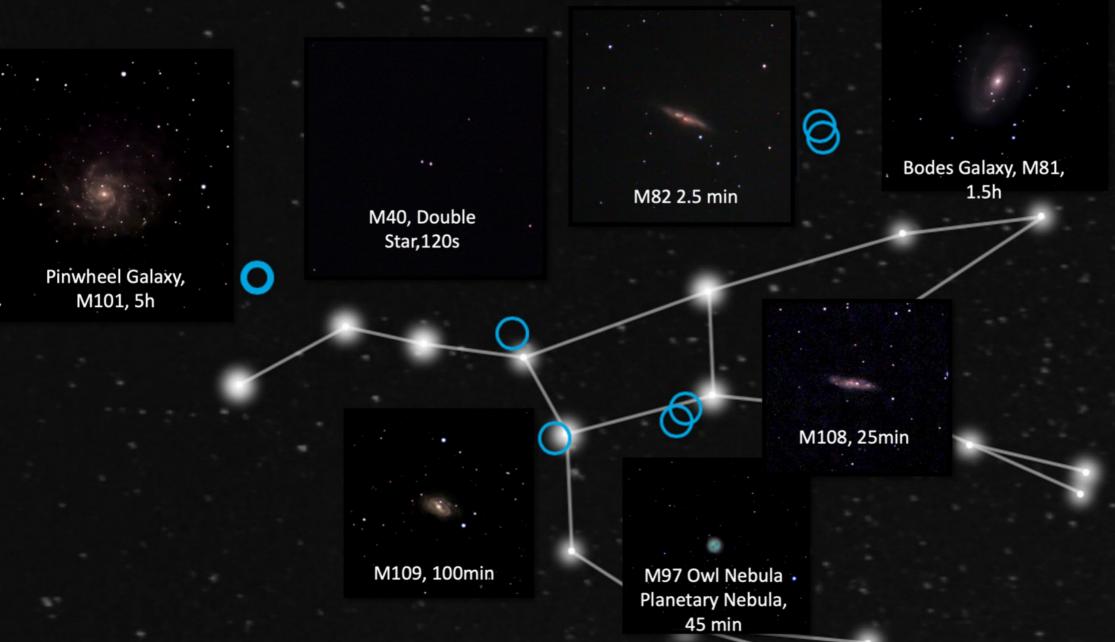
Spitzer Space Telescope • MIPS

Visible: NOAO/AURA/NSF

ssc2005-20a



#### Ursa Major



Stellina

